

Amendments to the Abstract:

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Please replace the Abstract with the following paragraph:

A¹
--A wireless communication system is provided which transmits and receives Multiple-Transmit Multiple-Receive (MTMR) signal in which the superimposed substreams of the received MTMR signal are recovered by concurrently estimating all of the substreams of the transmitted signal. A plurality of estimated data symbols are defined as a function of the plurality of signal samples. A difference expression that represents a difference between a function of a plurality of estimated data symbols and a function of the plurality of signal samples is determined and is a sum of plurality of terms. Values for each of a portion of a plurality of estimated data symbols are repeatedly selected such that one of the plurality of terms is minimized. Values for a further portion of the plurality of estimated data symbols are repeatedly selected such that a further one of the plurality of terms is minimized.